



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

10/065,004

09/09/2002

Alexander Yurusov

5724

32321

7590

05/04/2005

ALEXANDER YURUSOV

5F, NO. 17

HANG SHENG EAST ROAD, PANCHIAO

TAIPEI, 220

TAIWAN

EXAMINER

GIANOLA, JOHN F

ART UNIT

PAPER NUMBER

2145

DATE MAILED: 05/04/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/065,004

Applicant(s)

YURUSOV, ALEXANDER

Examiner

John F. Gianola

Art Unit

2145

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 09 September 2002.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-3 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-3 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 09 September 2002 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

Art Unit: 2145

1. An examination of this application reveals that applicant is unfamiliar with patent prosecution procedure. While an inventor may prosecute the application, lack of skill in this field usually acts as a liability in affording the maximum protection for the invention disclosed. Applicant is advised to secure the services of a registered patent attorney or agent to prosecute the application, since the value of a patent is largely dependent upon skilled preparation and prosecution. The Office cannot aid in selecting an attorney or agent.

2. A listing of registered patent attorneys and agents is available on the USPTO Internet web site <http://www.uspto.gov> in the Site Index under "Attorney and Agent Roster." Applicants may also obtain a list of registered patent attorneys and agents located in their area by writing to the Mail Stop OED, Director of the U. S. Patent and Trademark Office, PO Box 1450, Alexandria, VA 22313-1450

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Art Unit: 2145

4. Claim 1 is rejected under 35 U.S.C. 102(b). As noted by applicant in the "Background of Invention", and more specifically in the applicant cited Shin et. al, it is well known in the art:

Where a TMDS receiver receives digital video data according to the received TMDS clock and a TMDS transmitter transmits digital video data according to a quartz clock, and a dual port first-in-first-out (FIFO) memory is used to buffer digital video data during an active video period of a video line.

The applicant fails to patently differentiate his invention from the prior art.

5. Claims 2 and 3 are rejected under 35 U.S.C. 102(b) as being anticipated by Stoll et. al. "Lightning-2: A High Performance Display Subsystem for PC Clusters" (see attached Notice of References Cited).

6. As to Claim 2:

A dual port first-in-first-out FIFO memory buffer (see Figure 2);

A TMDS receiver writing received data into a dual port FIFO memory buffer according to received TMDS clock (see page 142, column 2, lines 20-23);

A quartz oscillator (inherent, see page 143, column 1, lines 64-66; and page 143, column 1, lines 2-3);

One or several TMDS transmitters reading data from a dual port FIFO memory buffer according to the quartz clock (see page 142, column 2, lines 8-9);

A circuit to control an outgoing TMDS stream according to an incoming TMDS stream by counting the amount of received and transmitted data and using time of the data disable interval to compensate the speed difference of incoming and outgoing streams caused by a frequency difference between a quartz clock and received TMDS clock (see page 146, column 2, lines 40-43 and page 147, column 1, lines 1-5; also see page 143, column 1, lines 64-66; and page 143, column 2, lines 44-55).

7. As to Claim 3:

A computer as a source of a digital video data (see page 142, column 1, lines 46-50);

A plurality of TMDS repeaters of Claim 2 used to repeat and distribute a digital video data (see page 142, column 1, lines 46-50);

A plurality of digital display devices connected to TMDS repeaters of Claim 2 and used to display a digital video data (see page 142, column 1, lines 46-50).

Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure: Lamm et. al. (US Pat. No. 5,703,585), Moriyama et. al. (US Pat. No. 4,736,238), and Kang (US Pat. No. 6,577,337 B1).

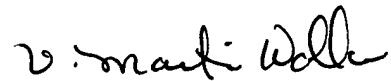
Art Unit: 2145

Any inquiry concerning this communication or earlier communications from the examiner should be directed to John F. Gianola whose telephone number is (571)272-3848. The examiner can normally be reached on Mon - Fri (8:30 - 5:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Valencia Martin Wallace can be reached on (571)272-6159. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

jfg


VALENCIA MARTIN-WALLACE
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 3700